# Vari-Twist® 9V280XX Series

.050" Pitch, 28 AWG, PVC

#### **Product Description**

Belden's PVC Vari-Twist 9V280XX series was designed to reduce crosstalk in the balanced mode by twisting the pairs, but can be mass-terminated in the programmed flat sections with any standard IDC connector. To further reduce crosstalk, each adjacent pair is twisted in the opposite direction. The standard twist length is 18 inches followed by a 2 inch flat section of .050" spaced conductors. The cable consists of stranded 28 AWG (7x36) tinned copper, color-coded PVC pre-insulated singles — laminated to a single clear PVC substrate. Eleven various conductor/pair counts are standard; other sizes are available upon request. The cable is UL approved (CSA available upon request) and passes the VW-1 Vertical Wire Flame Test.

Upon your request, Vari-Twist can also be manufactured to your own specific requirements whether that be longer or shorter twist sections and/or flat sections.

**Color Code:** Each pair consists of a Tan conductor paired with a color-coded conductor. *Color Sequence Each Terminating Section:* Brown/Tan, Red/Tan, Orange/Tan, Yellow/Tan, Green/Tan, Blue/Tan, Purple/Tan, Gray/Tan, White/Tan, Black/Tan. Sequence is repeated as necessary.

**Application:** Internal interconnection or internal wiring of electronic equipment.

#### **Physical Specifications**

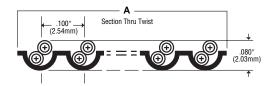
28 AWG (7x36) Tinned Copper
.010" Nom. Wall Color-coded PVC
.010" Nom. Wall Clear PVC
.100" Nom.
at: .050" ± .005"
1/2" Nom. Lay
jacent Pairs have Opposite Direction Lay
18" of Twisted Pairs
2" of Flat Section
-20 to +105°C
UL: VW-1
File #E12683,
Style Dual Rated 2693 & 2697
Available Upon Request
H100

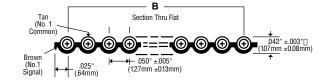
### **Electrical Specifications**

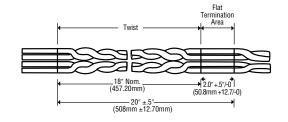
300V RMS
1A
68.2Ω/1000 ft.
>1 x 10¹⁰Ω • 10 ft. (3m)
115Ω
100Ω
16 pF/ft. (52 pF/m)
.24 μH/ft. (.79 μH/m)
1.60 ns/ft. (5.25 ns/m)

Part No.	No. of Pairs	Dimensions			
		Widtl	h "A"	Span	"B"
		Inch	mm	Inch	mm
9V28010	5	.50	12.70	.45 ±.012	11.43 ±.31
9V28014	7	.70	17.78	.65 ±.012	16.51 ±.30
9V28016	8	.80	20.32	.75 ±.012	19.05 ±.30
9V28020	10	1.00	25.40	.95 ±.015	24.13 ±.38
9V28026	13	1.30	33.02	1.25 ±.015	31.75 ±.38
9V28034	17	1.70	43.18	1.65 ±.015	41.91 ±.38
9V28036	18	1.80	45.72	1.75 ±.017	44.45 ±.43
9V28040	20	2.00	50.80	1.95 ±.017	49.53 ±.43
9V28050	25	2.50	63.50	2.45 ±.017	62.23 ±.43
9V28060	30	3.00	76.20	2.95 ±.020	74.93 ±.51
9V28064	32	3.20	81.28	3.15 ±.020	80.01 ±.51

#### **Dimensions**



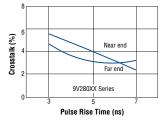




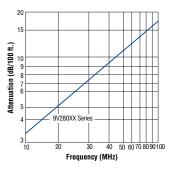
NOTE: the transition area is included in the twisted section to assure a full 2 Inches of flat termination area.

## **Unbalanced Crosstalk\***

(See page 7.14 for Balanced Crosstalk)



## Attenuation\*



BELDEN

For more information, contact Belden Technical Support: 1-800-BELDEN-1 • www.belden.com